Epibenthic Sled Samples From the Campbell River Estuary, 1997

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by

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ABSTRACT

Bravender, B. A., and S. S. Anderson. 2000. Epibenthic sled samples from the Campbell River estuary, 1997. Can. Data Rep. Fish. Aquat. Sci. 1064: 69 p.

The Campbell River estuary has been the site of habitat restoration by Fisheries and Oceans Canada since the early 1980's when four artificial islands were built and planted with marsh grass to replace marsh habitat lost due to the construction of a log sort pocket. Restoration has continued in the 1990's with the creation of more man made marsh benches, the construction of new channels as rearing area for the juvenile salmon rearing in the system, and the diverting of river water into the abandoned log pocket. This survey sampled the epibenthos present in the natural and created marsh sites, as well as at a mudflat site in a badly degraded slough which will be the focus of future restoration. Comparisons of the epibenthos present in these sites will assist in assessing whether the created marshes are as productive as those that are natural.

RÉSUMÉ

Bravender, B. A., and S. S. Anderson. 2000. Epibenthic sled samples from the Campbell River estuary, 1997. Can. Data Rep. Fish. Aquat. Sci. 1064: 69 p.

Depuis le début des années 80, l'estuaire de la Campbell bénéficie d'opérations de restauration de l'habitat menées par le ministère des Pêches et des Océans du Canada. Quatre îles artificielles ont été créées et plantées de graminées pour remplacer l'habitat disparu à cause de la construction d'un bassin de triage des billes. La restauration s'est poursuivie dans les années 90 avec la création de nouveaux talus artificiels, l'aménagement de nouveaux chenaux de grossissement pour les saumons juvéniles qui utilisent le système, et la dérivation de l'eau de la Campbell vers le bassin abandonné. Notre étude a porté sur l'échantillonnage de l'épibenthos présent dans les zones palustres naturelles et artificielles, ainsi que sur une vasière située dans un terrain marécageux particulièrement dégradé qui va être l'objet de prochains travaux de restauration. Les comparaisons des formes épibenthiques présentes sur ces sites aideront à déterminer si les marais artificiels sont aussi productifs que les marais naturels.

INTRODUCTION

In the early 1980's, a new dryland log sort and log booming pocket was constructed by BC Forest Products (now Timberwest) in the Campbell River estuary. In keeping with the policy of Fisheries and Oceans Canada of "no net loss of productive capacity of habitat" four new intertidal islands were built within the estuary to compensate for the loss of the marsh when this facility was constructed (Brownlee et al. 1984).

There was some concern as to whether the artificial islands would replace the lost marsh habitat and how this might affect the juvenile salmonids which rear within the estuary. Once the islands were built and planted with marsh grasses in early 1982, staff from Fisheries and Oceans Canada began a number of surveys within the Campbell River estuary and surrounding nearshore marine area. These investigations looked at the distribution and abundance of juvenile salmon (Anderson et al. 1998; Brown et al. 1983, 1984a, b, 1985a, 1986a, 1987a) and collected length and weight data for the juvenile salmonids captured during the study (Chang et al. 1984; Gordon et al. 1983; Kotyk et al. 1983, 1984, 1985a, b, 1986a, b, c; Anderson et al. 1998). Stomach analysis was also carried out for selected sites and species (Brown et al. 1987b, 1989; Anderson et al. 2000).

In addition, surveys were completed of the epibenthic (Kask et al. 1984, 1985, 1986a, b, 1988a, b), planktonic (Brown et al. 1984c, 1985b, c, 1986b) and benthic (Leigh-Spencer 1985; Raymond et al. 1984; Riley et al. 1987; Whitehouse 1991) organisms in the area.

In the early 1990's the log sort pocket was decommissioned and recently several of the industries within the inner estuary have closed down. Enhancement of the estuary has continued, including breaching of the west wall of the log pocket to join it with the river, and the construction of a number of marsh benches, some as compensation by industry vacating the estuary. These created benches were either planted with marsh plugs taken from other areas within the estuary or else were left to colonise on their own.

This survey was undertaken to assess the production of food organisms by the natural and created marshes within the estuary as a start in assessing whether the created habitats are flourishing and becoming as productive as the natural habitats.

MATERIALS AND METHODS

Twelve sites were selected within the estuary according to a subjectively determined habitat type: natural marsh (sites 1, 59, 60, 61, 66), created marsh (sites 62, 65), island marsh (sites 11, 14), riprap (sites 63, 64) or mudflat (site 58)

(Fig. 1). The created marsh sites were benches constructed at varying elevations, some of which were transplanted with natural marsh plugs (site 65), while others were left to colonise on their own (site 62). The island marsh sites were located on two of the artificial islands built in 1982. The natural marsh sites included two sites which had been sampled by staff from Fisheries and Oceans between 1982-1986 and again during the 1990's where juvenile salmon were found to be rearing. Samples were collected on four one to two day trips between May 23 and July 3. At each site temperature and salinity, to a depth of 1 metre where possible, were recorded with a YSI model 33 salinometer.

The epibenthos was sampled with the same epibenthic sled used in previous studies in the Campbell, Nanaimo, Englishman and Fraser river estuaries (Sibert et al. 1977; Kask et al. 1984, 1985, 1986a; Bravender et al. 1993, 1996). This sled, with a mouth opening 10 cm by 10 cm and fitted with a 100 µ net, sampled an area of 0.5 m^2 . At each site, the sled was positioned close to shore in water under one metre in depth. Three replicate samples were collected by pushing the sled along a five metre transect parallel to the shore in an undisturbed area. At sites 63 and 64, the samples were collected by a diver by swimming along the riprap wall, holding the sled close to the shore. The samples were preserved in a 70% solution of isopropanol and rose bengal and delivered to M. J. Hudson Technical Services laboratory for analysis.

In the lab, the samples were decanted through a 68 µ mesh sieve and water was added to bring the total sample volume up to 250 mls. The samples were counted in their entirety using a Wild M5 dissecting microscope with a plankton turntable. Specimens of the dominant categories were retained and identified to species where possible. In addition, for each sample the degree and type of contamination was subjectively estimated on a scale of one to five and recorded as algae, sediment or debris. The presence of an oily substance was also recorded at sites 1 and 58. Each sample was also scanned in its entirety and any large organisms (rare) were counted and removed.

RESULTS

The sampling schedule may be found in Table 1. Three replicates were collected at each of the 12 sites sampled, except on trip 4 when duplicate samples only were collected at sites 62 and 66, for a total of 97 samples. Table 2 describes the stations including sediment and habitat type, vegetation, slope and salinity ranges. The salinity and temperature data may be found in Table 3 and the list of samples collected by date, time, site and habitat type is available in Table 4. The organisms identified in the sled samples and the abbreviations used in Table 6 are presented in Table 5. The total counts for each sled sample are in Table 6.

REFERENCES

Anderson, S. S., and B. A. Bravender. 1998. Catch, length, and weight data for juvenile salmonids sampled from the Campbell River estuary and Discovery Passage, B. C., during 1994 and 1995. Can. Data Rep. Fish. Aquat. Sci. 1037: 181 p.

Anderson, S. S., and B. A. Bravender. 2000. Diet analysis data for juvenile chinook salmon from the Campbell River estuary, Campbell River, B. C., during 1994 and 1995. Can. Data Rep. Fish. Aquat. Sci. 1058: 169 p.

Bravender, B. A., C. D. Levings, and T. J. Brown. 1993. A comparison of meiofauna available as fish food on Sturgeon and Roberts Banks, Fraser River estuary, British Columbia. Can. Tech. Rept. Fish. Aquat. Sci. 1904: 40 p.

Bravender, B. A., C. Annand, A. Hillaby and J. Naylor. 1996. Results of a survey of fish, juvenile salmon diets and epibenthic invertebrates in the Englishman River estuary. Can. Manusc. Rep. Fish. Aquat. Sci. 2387: 62 p.

Brown, T. J., C. D. McAllister, C. D. Levings, and M. Kotyk. 1983. Salmonid catch-data from Campbell River and Discovery Passage, 1982. Can. Data Rep. Fish. Aquat. Sci. 416: 97 p.

Brown, T. J., C. D. McAllister, C. D. Levings, M. Kotyk, B. D. Chang, and J. S. Macdonald. 1984a. Salmonid catch-data from Campbell River and Discovery Passage 1983. Can. Data Rep. Fish. Aquat. Sci. 444: 97 p.

Brown, T. J., B. A. Kask, B. D. Chang, M. Kotyk, C. D. McAllister, J. S. Macdonald, and C. D. Levings. 1984b. Salmonid catch-data from Campbell River and Discovery Passage, 1984. Can. Data Rep. Fish. Aquat. Sci. 497: 79 p.

Brown, T. J., and B. A. Kask. 1984c. 1983 Campbell River miller net samples. Can. Data Rep. Fish. Aquat. Sci. 471: 73 p.

Brown, T. J., M. Kotyk, B. A. Kask, C. D. Levings, C. D. McAllister, and J. S. Macdonald. 1985a. Salmonid catch-data from Campbell River and Discovery Passage, 1985. Can. Data Rep. Fish. Aquat. Sci. 554: 77 p.

Brown, T. J., and B. A. Kask. 1985b. 1984 Campbell River zooplankton samples. Can. Data Rep. Fish. Aquat. Sci. 516: 69 p.

Brown, T. J., B. A. Kask, C. D. McAllister, M. Kotyk, C. D. Levings, and J. S. Macdonald. 1985c. 1985 Campbell River zooplankton samples. Can. Data Rep. Fish. Aquat. Sci. 572: 45 p.

Brown, T. J., B. A. Kask, M. S. Kotyk, C. D. McAllister, C. D. Levings, and J. S. Macdonald. 1986a. Salmonid catch-data from Campbell River and Discovery Passage, 1986. Can. Data Rep. Fish. Aquat. Sci. 617: 61 p.

Brown, T. J., B. A. Kask, C. D. McAllister, M. S. Kotyk, C. D. Levings, and J. S. Macdonald. 1986b. 1986 Campbell River zooplankton samples. Can. Data Rep. Fish. Aquat. Sci. 618: 29 p.

Brown, T. J., C. D. McAllister, and M. S. Kotyk. 1987a. A summary of the salmonid catch-data from Campbell River estuary and Discovery Passage for the years 1982 to 1986. Can. Data Rep. Fish. Aquat. Sci. 650: 99 p.

Brown, T. J., C. D. McAllister, and B. A. Kask. 1987b. Plankton samples in Campbell River and Discovery Passage in relation to juvenile chinook diets. Can. Manuscr. Rep. Fish. Aquat. Sci. 1915: 35 p.

Brown, T. J., J. S. Macdonald, and C. D. McAllister. 1989. Juvenile salmonid stomach data from the vicinity of Campbell River, British Columbia from 1982 to 1986. Can. Data Rep. Fish. Aquat. Sci. 774: 157 p.

Brownlee, M. J., E. R. Mattice, and C. D. Levings (compilers). 1984. The Campbell River estuary: a report on the design, construction, and preliminary follow-up study findings of intertidal marsh islands created for purposes of estuarine rehabilitation. Can. Manuscr. Rep. Fish. Aquat. Sci. 1789: 54 p.

Chang, B. D., M. S. Kotyk, T. J. Brown, C. D. Levings, C. D. McAllister, and J. S. Macdonald. 1984. Length and weight data for unmarked juvenile salmon sampled in the Campbell River estuary and Discovery Passage, 1983. Can. Data Rep. Fish. Aquat. Sci. 446: 39 p.

Gordon, D. K., M. Kotyk, T. Brown, C. D. Levings, and C. D. McAllister. 1983. Data record on coded wire tags recovered from juvenile chinook at Campbell River estuary and Discovery Passage, 1982. Can. Data Rep. Fish. Aquat. Sci. 403: 57 p.

Kask, B. A., and T. J. Brown. 1984. Meiofauna sled samples from Campbell River estuary and Discovery Passage 1982. Can. Data Rep. Fish. Aquat. Sci. 476: 157 p.

Kask, B. A., and T. J. Brown. 1985. Meiofauna sled samples from Campbell River estuary and Discovery Passage 1983. Can. Data Rep. Fish. Aquat. Sci. 499: 207 p.

Kask, B. A., and T. J. Brown. 1986a. Epibenthic sled samples from Campbell River estuary and Discovery Passage 1984. Can. Data Rep. Fish. Aquat. Sci. 612: 141 p.

Kask, B. A., T. J. Brown, and C. D. McAllister. 1986b. Nearshore epibenthos of the Campbell River estuary and Discovery Passage, 1982, in relation to juvenile chinook diets. Can. Tech. Rep. Fish. Aquat. Sci. 1449: 53 p.

Kask, B. A., T. J. Brown, and C. D. McAllister. 1988a. Nearshore epibenthos of the Campbell River estuary and Discovery Passage, 1983, in relation to juvenile chinook diets. Can. Tech. Rep. Fish. Aquat. Sci. 1616: 71 p.

Kask, B. A., T. J. Brown, and C. D. McAllister. 1988b. Nearshore epibenthos of the Campbell River estuary and Discovery Passage, 1984, in relation to juvenile chinook diets. Can. Tech. Rep. Fish. Aquat. Sci. 1637: 73 p.

Kotyk, M., B. D. Chang, T. J. Brown, C. D. Levings, and C. D. McAllister. 1983. Length and weight data for unmarked juvenile salmon sampled in the Campbell River estuary and Discovery Passage, 1982. Can. Data Rep. Fish. Aquat. Sci. 408: 61 p.

Kotyk, M. S., B. D. Chang, T. J. Brown, C. D. Levings, C. D. McAllister and J. S. Macdonald. 1984. Data record on coded wire tags recovered from juvenile chinook at Campbell River estuary and Discovery Passage, 1983. Can. Data Rep. Fish. Aquat. Sci. 457: 27 p.

Kotyk, M. S., T. J. Brown, B. A. Kask, C. D. Levings, C. D. McAllister, J. S. Macdonald, and B. D. Chang. 1985a. Length and weight data for unmarked juvenile salmonids sampled in the Campbell River estuary and Discovery Passage, 1984. Can. Data Rep. Fish. Aquat. Sci. 513: 54 p.

Kotyk, M. S., T. J. Brown, B. A. Kask, C. D. Levings, C. D. McAllister, J. S. Macdonald, and B. D. Chang. 1985b. Data record on coded wire tags recovered from juvenile salmonids at Campbell River estuary and Discovery Passage, 1984. Can. Data Rep. Fish. Aquat. Sci. 527: 17 p.

Kotyk, M. S., T. J. Brown, B. A. Kask, C. D. Levings, C. D. McAllister, and J. S. Macdonald. 1986a. Data record on coded wire tags recovered from juvenile salmonids at Campbell River estuary and Discovery Passage, 1985. Can. Data Rep. Fish. Aquat. Sci. 581: 19 p.

Kotyk, M. S., T. J. Brown, B. A. Kask, C. D. Levings, C. D. McAllister, and J. S. Macdonald. 1986b. Length and weight data for unmarked juvenile salmonids sampled in the Campbell River estuary and Discovery Passage, 1985. Can. Data Rep. Fish. Aquat. Sci. 616: 29 p.

Kotyk, M. S., T. J. Brown, B. A. Kask, C. D. Levings, C. D. McAllister, and J. S. Macdonald. 1986c. Length, weight and coded wire tag data for juvenile salmonids sampled in the Campbell River estuary and Discovery Passage, 1986. Can. Data Rep. Fish. Aquat. Sci. 630: 27 p.

Leigh-Spencer, S. 1985. Campbell River estuary benthic quadrat results 1984. British Columbia Forest Products, Resources Planning Group, Crofton, B. C. 47 p.

Raymond, B. and C. D. Levings. 1984. Benthic invertebrates associated with the islands in the Campbell River estuary: a preliminary report, p. 17-19. In M. J. Brownlee, E. R. Mattice and C. D. Levings (eds.). The Campbell River estuary: a report on the design, construction and preliminary follow-up study findings of intertidal marsh islands created for purposes of estuarine rehabilitation. Can. Manuscr. Rep. Fish. Aquat. Sci. 1789: 54 p.

Riley, P. M., B. A. Raymond, S. Leigh-Spencer and M. S. Kotyk. 1987. Data report on benthic sampling of artificial islands at Campbell River estuary, 1982-1986. Can. Data Rep. Fish. Aquat. Sci. 659: 69 p.

Sibert, J., B. A. Kask, and T. J. Brown. 1977. A diver-operated sled for sampling the epibenthos. Can. Fish. Mar. Serv. Tech. Rep. 738: 19 p.

Whitehouse, T. R. 1991. Data on insects emerging from natural and developed fish habitats at the Campbell and Fraser River estuaries, 1989. Can. Data Rep. Fish. Aquat. Sci. 827: 88 p.

Table 1. Sampling schedule for the 1997 epibenthic sled sampling.

Date		May 23	June 10	June 18	July 2-3	Total sleds
Trip No.		1	2	3	4	
Stn No.	Station Name					
1	Mother Ramp	3	3		3	9
11	Island One	3	3		3	9
14	Island Three		3		3	6
58	South Baikie Slough	3	3		3	9
59	River Marsh	3	3	3	3	12
60	Fred's Marsh		3		3	6
61	North Baikie Marsh	3	3		3	9
62	Barge Marsh		3	3	2	8
63	Riprap 1		3		3	6
64	Riprap 2		3		3	6
65	Log Sort Marsh			3	3	6
66	Control Marsh	3	3	3	2	11
Total sleds		18	33	12	34	97

Table 2. Locations and descriptions of the stations in the Campbell River estuary sampled during the 1997 epibenthic sled survey.

Station no./Name	Description
1. Mother Ramp	Beside Rainbow Air seaplane ramp, west side of Tyee Spit; sand, marsh at higher elevations, gravel at lower elevations; moderate slope. Salinity range: 0-28.9 ppt. Habitat type: Natural Marsh
11. Island one	Bay on Island No. one; transplanted marsh at higher elevations; mud/wood debris at lower elevations; shallow slope. Salinity range: 0-22.9 ppt. Habitat type: Island Marsh
14. Island three: mid river side	Experimental tidal groove on Island No. 3, middle groove on river side; transplanted marsh at higher elevations, gravel/mud/wood/algae at lower elevations; moderate slope. Salinity range: 0-15.1 ppt. Habitat type: Island Marsh
58. South Baikie Slough	North west shore of South Baikie Slough just west of causeway to Baikie's Island; mud/wood debris/ gravel/cobble (angular), no vegetation; very shallow. Salinity range: 0-23.5 ppt. Habitat type: Mudflat
59. River Marsh	Established marsh on the east shore of the Campbell River at the entrance of a man made breach into the old log sort; area of high currents; wood debris; slight slope. Salinity range: 0 ppt. Habitat type: Natural Marsh

Table 2 (cont'd).

Station no./Name	Description
60. Fred's Marsh	Small beach on side channel south of Baikie Slough, backing onto C. R. Mills sorting yard; overgrown with willow, riparian shore; shallow slope. Salinity range: 0-7.5 ppt. Habitat type: Natural Marsh
61. North Baikie Marsh	South shore of north arm of Baikie Slough at confluence with Campbell River; marsh at higher elevations, eelgrass at lower elevations; moderate drop-off. Salinity range: 0-27.8 ppt. Habitat type: Natural Marsh
62. Barge Marsh	Bench on east side of estuary constructed as compensation habitat; naturally colonised; steep drop-off. Salinity range: 1.0 – 1.8 ppt. Habitat type: Created Marsh
63. Riprap 1	Riprap bank, nothwest side of abandoned log sort pocket; marsh at higher elevations; sharp drop-off. Salinity range: 1.6 – 3.4 ppt. Habitat type: Riprap
64. Riprap 2	Riprap bank, nothwest side of abandoned log sort pocket; marsh at higher elevations; sharp drop-off. Salinity range: 1.3 – 2.9 ppt. Habitat type: Riprap
65. Log Sort Marsh	Subtidal bench on southwest shore of abandoned log sort, south of breach in dyke, of natural marsh transplanted from River Marsh site to created bench; sharp drop-off. Salinity range: 1.0 – 1.6 ppt. Habitat type: Created Marsh

Table 2 (cont'd).

Station no./Name	Description
66. Control Marsh	Established marsh on the east shore of the Campbell River adjacent to Island One; gravel/mud; low slope. Salinity range: 0 ppt. Habitat type: Marsh

Table 3. Temperature and salinity data recorded during the epibenthic sled survey.

Date	Trip No.	Station Name	Stn No.	Depth (m)	Temp °C	Salinity ‰
May 23	1	Mother Ramp	1	0	-	-
"	"	"	"		-	-
"	"	Island One	11	0	-	-
"	"	"	"		-	-
"	"	South Baikie Slough	58	0	-	-
"	"	"	"		-	-
"	"	River Marsh	59	0	-	-
"	"	"	"		-	-
"	"	North Baikie Marsh	61	0	-	-
"	"	"	"		-	-
"	"	Control Marsh	66	0	-	-
"	"	"	"		-	-
June 10	2	Mother Ramp	1	0	15.0	0.9
"	"	"	"	1	14.2	1.9
"	"	Island One	11	0	17.0	0.5
"	"	"	"	0.5	18.5	3.0
"	"	Island Three	14	0	13.5	0
"	"	"	"	0.5	13.5	0
"	"	South Baikie Slough	58	0	14.5	0
"	"	"	"	0.5	14.0	0
"	"	River Marsh	59	0	13.8	0
"	"	"	"	0.5	13.6	0
"	"	Fred's Marsh	60	0	14.0	0
"	"	"	"	0.5	13.8	0
"	"	North Baikie Marsh	61	0	15.2	0
"	"	"	"	1	14.0	0.5
"	"	Barge Marsh	62	0	17.0	1.8
"	"	"	"	0.5	16.0	1.8
"	"	Riprap 1	63	0	16.1	1.6
"	"	"	"	1	13.9	3.4
"	"	Riprap 2	64	0	16.0	1.3
"	"	"	"	1	15.0	2.9
"	"	Control Marsh	66	0	13.9	0
"	"	"	"	0.5	13.8	0
June 18	3	River Marsh	59	0	13.5	0
"	"	Barge Marsh	62	0	14.0	1.0

Table 3 (cont'd).

Date	Trip No.	Station Name	Stn No.	Depth (m)	Temp °C	Salinity ‰
June 18	3	Log Sort Marsh	65	0	14.5	1.0
"	"	Control Marsh	66	0	14.9	0
July 2	4	Mother Ramp	1	0	15.1	1.4
"	"	Island One	11	0	17.5	0.8
July 3	"	Island Three	14	0	15.0	0
"	"	"	"	1	15.0	0
July 3	"	South Baikie Slough	58	0	15.0	0.5
"	"	"	"	1	13.0	16.0
July 2	"	River Marsh	59	0	15.0	0
July 3	"	Fred's Marsh	60	0	15.0	0
July 3	"	North Baikie Marsh	61	0	15.0	1.0
"	"	"	"	1	15.0	1.0
July 2	"	Barge Marsh	62	0	16.6	1.7
"	"	Riprap 1	63	0	16.2	2.5
"	"	Riprap 2	64	0	16.9	2.1
"	"	Log Sort Marsh	65	0	17.2	1.6
"	"	Control Marsh	66	0	16.5	0

Table 4. List of epibenthic sled samples collected during 1997.

Date	Trip number	Time (PST)	Site number	Site name	Habitat type	Replicate number
May 23	1	0929	1	Mother Ramp	Natural marsh	1
"	"	0932	"	"	"	2
"	"	0935	"	"	"	3
May 23	1	1018	58	South Baikie Slough	Mudflat	1
"	"	1021	"	"	"	2
"	"	1024	"	"	"	3
May 23	1	0950	66	Control Marsh	Natural marsh	1
"	"	0953	"	"	"	2
"	"	0956	"	"	"	3
May 23	1	1126	59	River Marsh	Natural marsh	1
"	"	1129	"	"	"	2
"	"	1132	"	"	"	3
May 23	1	1149	61	North Baikie Marsh	Natural marsh	1
"	"	1152	"	"	"	2
"	"	1155	"	"	"	3
May 23	1	0857	11	Island One	Natural marsh	1
"	"	0900	"	"	"	2
"	"	0903	"	"	"	3
Total						18
June 10	2	1009	60	Fred's Marsh	Natural marsh	1
"	"	1015	"	"	"	2
"	"	1017	"	"	"	3

Table 4 (cont'd).

Date	Trip number	Time (PST)	Site number	Site name	Habitat type	Replicate number
June 10	2	1035	58	South Baikie Slough	Mudflat	1
"	"	1042	"	"	"	2
"	"	1045	"	"	"	3
June 10	2	1059	59	River Marsh	Natural marsh	1
"	"	1103	"	"	"	2
"	"	1105	"	"	"	3
June 10	2	1120	66	Control marsh	Natural marsh	1
"	"	1123	"	"		2
"	"	1125	"	"		3
June 10	2	1210	61	North Baikie Marsh	Natural marsh	1
"	"	1213	"	"	"	2
"	"	1216	"	"	"	3
June 10	2	1230	14	Island Three	Island marsh	1
"	"	1233	"	"	"	2
"	"	1235	"	"	"	3
June 10	2	1255	1	Mother Ramp	Natural marsh	1
"	"	1300	"	"	"	2
"	"	1303	"	"	"	3
June 10	2	1316	11	Island One	Island marsh	1
"	"	1319	"	"	"	2
"	"	1321	"	"	"	3
June 10	2	1339	62	Barge Marsh	Created marsh	1
"	"	1341	"	"	"	2
"	"	1343	"	"	"	3

Table 4 (cont'd).

Date	Trip number	Time (PST)	Site number	Site name	Habitat type	Replicate number
June 10	2	1412	63	Riprap1	Riprap	1
"	"	1416	"	"	"	2
"	"	1420	"	"	"	3
June10	2	1438	64	Riprap2	Riprap	1
"	"	1443	"	"	"	2
"	"	1448	"	"	"	3
Total						33
June 18	3	1526	66	Control Marsh	Natural marsh	1
"	"	1530	"	"		2
"	"	1536	"	"		3
June 18	3	1550	65	Log Sort Marsh	Created marsh	1
"	"	1556	"	"	"	2
"	"	1603	"	"	"	3
June 18	3	1617	59	River Marsh	Natural marsh	1
"	"	1622	"	"	"	2
"	"	1626	"	"	"	3
June 18	3	1703	62	Barge Marsh	Created marsh	1
"	"	1708	"	"	"	2
"	"	1713	"	"	"	3
Total						12
July 2	4	1233	11	Island One	Island marsh	1
"	"	1235	"	"	"	2
"	"	1237	"	"	"	3

Table 4 (cont'd).

Date 1997	Trip number	Time (PST)	Site number	Site name	Habitat type	Replicate number
July 2	4	1054	1	Mother Ramp	Natural marsh	1
"	"	1057	"	"	"	2
"	"	1101	"	"	"	3
July 2	4	1305	63	Riprap 1	Riprap	1
"	"	1308	"	"	"	2
"	"	1310	"	"	"	3
July 2	4	1325	64	Riprap 2	Riprap	1
"	"	1328	"	"	"	2
"	"	1331	"	"	"	3
July 2	4	1359	66	Control Marsh	Natural marsh	1
"	"	1401	"			2
July 2	4	1427	59	River Marsh	Natural marsh	1
"	"	1431	"	"	"	2
"	"	1435	"	"	"	3
July 2	4	1448	65	Log Sort Marsh	Created marsh	1
"	"	1451	"	"	"	2
"	"	1455	"	"	"	3
July 2	4	1604	62	Barge Marsh	Created marsh	1
"	"	1607	"	"	"	2
July 3	4	0955	61	North Baikie Marsh	Natural marsh	1
"	"	0957	"	"	"	2
"	"	1001	"	"	"	3

Table 4 (cont'd).

Date 1997	Trip number	Time (PST)	Site number	Site name	Habitat type	Replicate number
July 3	4	1333	14	Island Three	Island marsh	1
"	"	1336	"	"	"	2
"	"	1338	"	"	"	3
July 3	4	0823	60	Fred's Marsh	Natural marsh	1
"	"	0825	"	"	"	2
"	"	0827	"	"	"	3
July 3	4	0915	58	South Baikie Slough	Mudflat	1
"	"	0917	"	"	"	2
"	"	0919	"	"	"	3
Total						34
Total sleds						97

Table 5. List of epibenthic organisms identified in the sled samples and abbreviations used in Table 6.

Abbreviation	Group	Genus and species identified
AMPH	Amphipod	
BCYP	Barnacle cypris	
BIVA	Bivalve	
BNAU	Barnacle nauplius	
CALA	Calanoid	Diaptomus sp.; Eurytermora affinis
CLAD	Cladoceran	Bosmina sp.; Daphnia sp.; Chydorus sp.; Acroperus sp.; Acerperus sp.; Alona sp.; Holopedium sp.
CNAU	Copepod nauplius	
CUMA	Cumacean	
CYCL	Cyclopoid	Diacyclops sp.; Oncaea borealis; Macrocyclops sp.; Acanthocyclops sp.
EGGS	Egg	
FILA	Fish larva	
GAST	Gastropod	
GEGG	Gastropod egg case	
HARP	Harpacticoid	
INSE	Insect	Chironomid larvae, pupae; Collembola; Simulidae larva; Plecoptera (stonefly)
ISOP	Isopod	
MITE	Mite	
MYSI	Mysid	
NEMA	Nematode	
OSTR	Ostracod	
POLY	Polychaete	
ROTI	Rotifer	Kellicottia sp.; Keratella sp.; Polyarthra sp.
TANA	Tanadacean	
WORM	Worm	

Table 6. Counts of epibenthic organisms in sled samples from the Campbell River estuary, 1997.

SITE: Mother Ramp	DATE: May 23		REP: 1		Site 1		Time: 0929 PST			
SAMPLE VOLUME:250MLS										
CONTAMINATION:3										
RARE SCAN= 0.										
SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	0	4	2	0	12	1	41	1	2
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	4	2	0	12	1	41	1	2
SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD			
COUNT:	4	2	24	4	2	1	1			
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250			
TOTAL COUNT:	4	2	24	4	2	1	1			
DOMINANT SPECIES										
Nematode - 41										
Rotifer (Kellicottia) - 24										
Ostracod - 12										
COMMENTS: CLAD=Daphnia.										

SITE: Mother Ramp	DATE: May 23		REP: 2		Site 1		Time: 0932 PST			
SAMPLE VOLUME:250MLS										
CONTAMINATION:3										
RARE SCAN= 0.										
SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	1	3	10	1	4	0	28	2	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	1	3	10	1	4	0	28	2	0
SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD			
COUNT:	1	0	62	0	5	0	0			
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250			
TOTAL COUNT:	1	0	62	0	5	0	0			
DOMINANT SPECIES										
Rotifer (Kellicottia) - 62										
Nematode - 28										
Copepod nauplius - 10										
COMMENTS:										

Table 6 (cont'd).

SITE: Mother Ramp DATE: May 23 REP:3 Site 1 Time: 0935 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:3
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	0	3	3	2	1	0	109	2	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	3	3	2	1	0	109	2	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD
COUNT:	0	3	24	0	1	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250
TOTAL COUNT:	0	3	24	0	1	0	0

DOMINANT SPECIES
Nematode - 109
Rotifer (Kellicottia) - 24

COMMENTS:

SITE: South Baikie Slough DATE: May 23 REP:1 Site 58 Time: 1018 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:5
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	0	9	0	1	0	0	16	1	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	9	0	1	0	0	16	1	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD
COUNT:	1	0	23	0	0	0	5
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250
TOTAL COUNT:	1	0	23	0	0	0	5

DOMINANT SPECIES
Rotifer - 23
Nematode -16
Harpacticoid - 9
COMMENTS: CLAD = 4 Bosmina + 1 Holopedium. ROTI = 21 Kellicottia+ 2 Polyarthra.

Table 6 (cont'd).

SITE: South Baikie Slough DATE: May 23 REP:2 Site 58 Time: 1021 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:5 Lots of sand and debris.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	2	9	1	0	0	1	0	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	2	9	1	0	0	1	0	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD
COUNT:	2	1	3	0	1	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250
TOTAL COUNT:	2	1	3	0	1	0	0

DOMINANT SPECIES
Harpacticoid - 9

COMMENTS: ROTI = Kellicottia.

SITE: South Baikie Slough DATE: May 23 REP:3 Site 58 Time: 1024 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:5 Lots of sand and debris.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	0	6	0	0	0	2	0	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	6	0	0	0	2	0	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD
COUNT:	0	0	1	0	0	0	1
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	1	0	0	0	1

DOMINANT SPECIES
Harpacticoid - 6

COMMENTS: CLAD = Bosmina. ROTI = Kellicottia.

Table 6 (cont'd).

SITE: Control Marsh DATE: May 23 REP:1 Site 66 Time: 0950 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:3
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	1	0	4	17	0	3	0	3	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	1	0	4	17	0	3	0	3	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD
COUNT:	2	0	57	0	0	0	3
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250
TOTAL COUNT:	2	0	57	0	0	0	3

DOMINANT SPECIES
Rotifer - 57
Copepod Nauplius - 17

COMMENTS: ROTI = 56 Kellicottia + 1 Polyarthra. CLAD = Bosmina. CALA = Calanoid juvenile.

SITE: Control Marsh DATE: May 23 REP:2 Site 66 Time: 0953 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:3
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	2	1	2	16	0	3	1	12	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	2	1	2	16	0	3	1	12	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD
COUNT:	0	0	279	0	0	0	4
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	279	0	0	0	4

DOMINANT SPECIES
Rotifer -279
Copepod Nauplius - 16
Nematode - 12
COMMENTS: CLAD = 2 Bosmina + 2 Holopedium. ROTI = 276 Kellicottia + 2 Polyarthra + 1 Keratella . CALA = 2 Calanoid juveniles.

Table 6 (cont'd).

SITE: Control Marsh	DATE: May 23		REP:3		Site 66		Time: 0956 PST			
SAMPLE VOLUME:250MLS										
CONTAMINATION:3										
RARE SCAN= 0.										
SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	2	0	4	16	0	8	1	20	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	2	0	4	16	0	8	1	20	0	0
SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD			
COUNT:	0	0	313	0	0	0	4			
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250			
TOTAL COUNT:	0	0	313	0	0	0	4			
DOMINANT SPECIES										
Rotifer -313										
Nematode - 20										
Copepod Nauplius- 16										
COMMENTS: ROTI = 305 Kellicottia+ 7 Polyarthra + 1Keratella. CLAD = 1 Daphnia + 3 Holopedium. CALA = 2 Calanoid juveniles.										

SITE: River Marsh	DATE: May 23		REP:1		Site 59		Time: 1126 PST			
SAMPLE VOLUME:250MLS										
CONTAMINATION:3										
RARE SCAN= 0.										
SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	2	0	3	19	0	2	0	3	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	2	0	3	19	0	2	0	3	0	0
SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD			
COUNT:	7	0	498	0	0	0	10			
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250			
TOTAL COUNT:	7	0	498	0	0	0	10			
DOMINANT SPECIES										
Rotifer -498										
Copepod Nauplius - 19										
Cladoceran - 10										
COMMENTS:CLAD=1 Bosmina + 4 Daphnia + 5 Holopedium.ROTI=486 Kellicottia + 5 Polyarthra + 7 Keratella.CALA=2 Calanoid adults.										

Table 6 (cont'd).

SITE: River Marsh DATE: May 23 REP:2 Site 59 Time: 1129 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:3
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	6	2	4	24	0	1	0	5	2	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	6	2	4	24	0	1	0	5	2	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD
COUNT:	2	1	472	0	0	0	4
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250
TOTAL COUNT:	2	1	472	0	0	0	4

DOMINANT SPECIES
Rotifer - 472
Copepod Nauplius - 24

COMMENTS: ROTI = 464 Kellicottia+ 8 Polyarthra. CLAD = 2 Bosmina+ 2 Holopedium. CALA = 5 Calanoid juveniles + 1 Calanoid adult.

SITE: River Marsh DATE: May 23 REP:3 Site 59 Time: 1132 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:3
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	4	3	5	41	0	1	0	16	1	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	4	3	5	41	0	1	0	16	1	0

SPECIES:	WORM	POLY	ROT	EGG	MYSID	CUMA	CLAD
COUNT:	2	0	886	2	0	0	25
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250
TOTAL COUNT:	2	0	886	2	0	0	25

DOMINANT SPECIES
Rotifer -886
Copepod Nauplius - 41
Cladoceran - 25
COMMENTS: CLAD = 9 Bosmina + 5 Daphnia + 9 Holopedium + 2 Alona. ROTI = 865 Kellicottia + 13 Polyarthra + 8 Keratella.
COMMENTS: CALA = 2 Calanoid adults + 2 Calanoid juveniles.

Table 6 (cont'd).

SITE: North Baikie Marsh DATE: May 23 REP:1 Site 61 Time: 1149 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:3
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	1	0	3	10	0	0	0	9	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	1	0	3	10	0	0	0	9	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE
COUNT:	0	0	309	0	1	0	1	2	1
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	309	0	1	0	1	2	1

DOMINANT SPECIES
Rotifer - 309
Copepod Nauplius - 10

COMMENTS: ROTI = 305 Kellicottia+ 4 Polyarthra. CLAD = 1 Alona . CALA = Calanoid juvenile. INSE = 1 Larva.

SITE: North Baikie Marsh DATE: May 23 REP:2 Site 61 Time: 1152 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:3
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	0	2	11	0	0	0	14	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	2	11	0	0	0	14	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD
COUNT:	0	0	319	0	1	0	1
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	319	0	1	0	1

DOMINANT SPECIES
Rotifer - 319
Nematode - 14
Copepod Nauplius - 11
COMMENTS: CLAD = 1 Bosmina. ROTI = 319 Kellicottia.

Table 6 (cont'd).

SITE: North Baikie Marsh DATE: May 23 REP:3 Site 61 Time: 1155 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:3
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	1	4	7	0	6	0	10	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	1	4	7	0	6	0	10	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE
COUNT:	1	0	259	0	5	0	0	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	1	0	259	0	5	0	0	0	0

DOMINANT SPECIES
Rotifer - 259
Nematode - 10

COMMENTS: ROTI = 257 Kellicottia+ 2 Polyarthra.

SITE: Island One DATE: May 23 REP:1 Site 11 Time: 0857 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:5 Lots of seaweed.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	2	7	5	0	1	8	10	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	2	7	5	0	1	8	10	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP
COUNT:	0	0	11	0	1	0	0	4
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	11	0	1	0	0	4

DOMINANT SPECIES
Rotifer - 11
Nematode - 10
Amphipod - 8
COMMENTS: ROTI = 11 Kellicottia.

Table 6 (cont'd).

SITE: Island One DATE: May 23 REP:2 Site 11 Time: 0900 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:3
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	0	16	9	0	1	1	9	1	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	16	9	0	1	1	9	1	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE
COUNT:	1	0	9	0	0	0	3	1	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	1	0	9	0	0	0	3	1	0

DOMINANT SPECIES
Harpacticoid - 16
Nematode - 9
Rotifer - 9
COMMENTS: ROTI = 9 Kellicottia. CLAD = 3 Bosmina.

SITE: Island One DATE: May 23 REP:3 Site 11 Time: 0903 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:5 Lots of seaweed & sand.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	0	22	2	0	1	1	17	1	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	22	2	0	1	1	17	1	0

SPECIES:	WORM	POLY	ROT	EGG	MYSID	CUMA	CLAD	ISOPOD
COUNT:	0	0	8	0	0	0	0	1
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	8	0	0	0	0	1

DOMINANT SPECIES
Harpacticoid -22
Nematode - 17
Rotifer - 8
COMMENTS: ROTI = 8 Kellicottia.

Table 6 (cont'd).

SITE: Mother Ramp DATE: June 10 REP:1 Site 1 Time: 1255 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:4 Quite oily.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	4	5	1	0	1	2	2	2	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	4	5	1	0	1	2	2	2	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	3	6	5	0	1	0	0	0	5	2
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	3	6	5	0	1	0	0	0	5	2

DOMINANT SPECIES
Polychaete - 6
Harpacticoid - 5
Insect - 5
COMMENTS: ROTI = 5 Kellicottia. CYCL = 4 Diacyclops. INSE = 5 Larvae.

SITE: Mother Ramp DATE: June 10 REP:2 Site 1 Time: 1300 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:4 Quite oily- looks like paint.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	0	4	2	0	0	3	6	1	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	4	2	0	0	3	6	1	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	0	5	16	0	13	0	2	2	1	2
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	5	16	0	13	0	2	2	1	2

DOMINANT SPECIES
Rotifer - 16
Mysid - 13
Nematode - 6
COMMENTS: CLAD = 2 Bosmina. ROTI = 16 Kellicottia. INSE = 1 Larva.
COMMENTS:

Table 6 (cont'd).

SITE: Mother Ramp DATE: June 10 REP:3 Site 1 Time: 1303 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:4 Quite oily.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	3	0	0	0	0	0	0	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	3	0	0	0	0	0	0	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	3	0	3	0	0	1	0	0	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	3	0	3	0	0	1	0	0	0	0

DOMINANT SPECIES
Cyclopoids - 3
Worms - 3
Rotifers - 3
COMMENTS: ROTI = 3 Kellicottia. CYCL = 3 Diacyclops.

SITE: South Baikie Slough DATE:June 10 REP:1 Site 58 Time: 1035 PST

CONTAMINATION:4 Quite oily- looks like paint.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	13	2	46	68	0	0	2	10	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	13	2	46	68	0	0	2	10	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	1	0	2	0	0	0	2	0	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	1	0	2	0	0	0	2	0	0	0

DOMINANT SPECIES
Copepod nauplius - 68
Harpacticoids - 48
Calanoids - 13
COMMENTS: CLAD = 2 Bosmina. ROTI = 2 Kellicottia. CALA = 9 Eurytemora affinis + 4 Calanoid juveniles.

Table 6 (cont'd).

SITE: South Baikie Slough DATE: June 10 REP:2 Site 58 Time: 1042 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:4 Lots of twigs and debris.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	38	0	49	27	0	1	6	0	1	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	38	0	49	27	0	1	6	0	1	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	0	0	6	0	0	0	0	0	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	6	0	0	0	0	0	0	0

DOMINANT SPECIES
Harpacticoids - 49
Calanoids - 38
Copepod nauplius - 27
COMMENTS: ROTI = 6 Kellicottia. CALA = 9 Eurytemora affinis + 29 Calanoid juveniles.

SITE: South Baikie Slough DATE: June 10 REP:3 Site 58 Time: 1045 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:3 Debris and fine sand.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	6	0	6	4	0	0	1	0	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	6	0	6	4	0	0	1	0	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	2	0	2	0	0	0	0	0	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	2	0	2	0	0	0	0	0	0	0

DOMINANT SPECIES
Harpacticoids - 6
Calanoids - 6
Copepod nauplius - 4
COMMENTS: ROTI = 2 Kellicottia. CALA = 3 Eurytemora affinis + 3 Calanoid juveniles.

Table 6 (cont'd).

SITE: River Marsh DATE: June 10 REP:1 Site 59 Time: 1059 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:2
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	1	1	3	45	0	0	0	1	3	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	1	1	3	45	0	0	0	1	3	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	4	0	107	0	0	0	31	0	18	1
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	4	0	107	0	0	0	31	0	18	1

DOMINANT SPECIES
Rotifers - 105
Copepod nauplius - 45
Cladocerons - 31
COMMENTS: ROTI = 107 Kellicottia.CYCL = 1Diacyclop. CALA = Calanoid juvenile. INSE = 16 Chironimid larvae + 2 Simulidae larvae.
COMMENTS: CLAD = 27 Bosmina + 4 Daphnia.

SITE: River Marsh DATE: June 10 REP:2 Site 59 Time: 1103 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:3 Debris
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	3	1	5	85	0	0	0	1	2	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	3	1	5	85	0	0	0	1	2	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	3	0	166	0	0	0	37	0	5	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	3	0	166	0	0	0			5	0

DOMINANT SPECIES
Rotifers - 166
Copopod nauplius - 85
Cladocerons - 37
COMMENTS: ROTI = 166 Kellicottia. CYCL = 1Diacyclop. CALA = Calanoid juvenile. INSE = 5 Chironimid larvae.
COMMENTS: CLAD = 35 Bosmina + 2 Daphnia.

Table 6 (cont'd).

SITE: River Marsh DATE: June 10 REP:3 Site 59 Time: 1105 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:2
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	2	2	6	25	0	0	0	1	1	1
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	2	2	6	25	0	0	0	1	1	1

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	3	0	103	0	0	0	19	0	2	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	3	0	103	0	0	0	19	0	2	0

DOMINANT SPECIES
Rotifers - 103
Copepod nauplius - 25
Cladocerons - 19
COMMENTS: ROTI = 103 Kellicottia. CYCL = 2 Diacyclops. CALA = Calanoid juveniles. INSE = 2 Chironimid larvae.
COMMENTS: CLAD = 19 Bosmina.

SITE: North Baikie Marsh DATE: June 10 REP:1 Site 61 Time: 1210 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:2
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	0	19	3	3	0	0	14	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	19	3	3	0	0	14	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	3	0	10	0	1	0	0	0	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	3	0	10	0	1	0	0	0	0	0

DOMINANT SPECIES
Harpacticoids - 19
Nematodes - 14
Rotifers - 10
COMMENTS: ROTI = 19 Kellicottia.

Table 6 (cont'd).

SITE: North Baikie Marsh DATE: June 10 REP:2 Site 61 Time: 1213 PST
SAMPLE VOLUME:250MLS
CONTAMINATION: 3 - Sand and Debris
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	1	0	2	0	0	0	0	6	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	1	0	2	0	0	0	0	6	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	0	0	13	0	0	0	0	0	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	13	0	0	0	0	0	0	0

DOMINANT SPECIES
Rotifers - 13
Nematodes - 6
Harpacticoids - 2
COMMENTS: ROTI = 13 Kellicottia.

SITE: North Baikie Marsh DATE: June 10 REP:3 Site 61 Time:1216 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:3 - Sand and debris
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	1	3	1	0	5	0	16	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	1	3	1	0	5	0	16	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	0	0	15	0	0	0	0	0	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	15	0	0	0	0	0	0	0

DOMINANT SPECIES
Nematodes -16
Rotifers - 15
Ostracods - 5
COMMENTS: ROTI = 15 Kellicottia. CYCL = Diacyclop.

Table 6 (cont'd).

SITE: Island 3 DATE: June 10 REP:1 Site 14 Time: 1230 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:3 Find sand
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	0	1	3	0	1	0	5	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	1	3	0	1	0	5	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	1	0	31	0	0	0	4	0	0	1
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	1	0	31	0	0	0	4	0	0	1

DOMINANT SPECIES
Rotifers - 31
Nematodes - 5
Cladocerons - 4
COMMENTS: ROTI = 31Kellicottia. CLAD = 4 Bosmina.

SITE: Island 3 DATE: June 10 REP:2 Site 14 Time: 1233 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:3 Fine sand and debris.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	1	1	0	13	0	0	0	1	1	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	1	1	0	13		0	0	1	1	

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	0	0	105	0	0	0	5	0	1	2
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	105		0	0	5	0	1	2

DOMINANT SPECIES
Rotifers - 105
Copepod nauplius - 13
Cladocerons - 5
COMMENTS: ROTI=105 Kellicottia. CLAD=5 Bosmina. INSE=Chironomid larva. CALA=Calanoid juvenile. CYCL=Cyclopoid juvenile.

Table 6 (cont'd).

SITE: Island 3 DATE: June 10 REP: 3 Site 14 Time: 1235 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:2
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	2	0	1	3	0	1	0	4	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	2	0	1	3	0	1	0	4	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	0	0	58	0	0	0	3	0	0	1
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	58	0	0	0	3	0	0	1

DOMINANT SPECIES
Rotifers - 58
Nematodes - 4
Cladocerons - 3
COMMENTS: ROTI = 58 Kellicottia. CLAD = 3 Bosmina. CALA = 2 Calanoid juvenile.

SITE: Fred's Marsh DATE: June 10 REP:1 Site 60 Time: 1009 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:4 Fine sand and debris
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	2	16	13	0	0	0	29	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	2	16	13	0	0	0	29	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	FILA
COUNT:	15	0	5	0	0	0	8		35	1
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	15	0	5	0	0	0	8		35	1

DOMINANT SPECIES
Insects - 35
Nematodes - 29
Harpacticoids - 16
COMMENTS: ROTI=5 Kellicottia. INSE=29 Chironomid larvae+6 Stonefly nymphs.CLAD=1 Bosmina + 7 Alona. CYCL=2 Diacyclops.

Table 6 (cont'd).

SITE: Fred's Marsh DATE: June 10 REP:2 Site 60 Time: 1015 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:3 Debris and fine sand.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	0	0	4	0	1	0	12	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	0	4	0	1	0	12	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	2	0	4	0	0	0	2	0	10	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	2	0	4	0	0	0	2	0	10	0

DOMINANT SPECIES
Nematodes - 12
Insects - 10
Copepod nauplius - 4
COMMENTS: ROTI = 4 Kellicottia. INSE = 9 Chironomid larvae + 1 Stonefly nymph. CLAD = 1 Bosmina + 1 Alona.

SITE: Fred's Marsh DATE: June 10 REP:3 Site 60 Time: 1017 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:4 Fine sand and debris
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	1	2	2	9	0	1	0	7	1	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	1	2	2	9	0	1	0	7	1	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	FILA
COUNT:	6	0	20	0	0	0	9	0	21	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	6	0	20	0	0	0	9	0	21	0

DOMINANT SPECIES
Insects - 21
Rotifers - 20
Cladocerons - 9
COMMENTS:ROTI=20 Kellicottia.INSE=21 Chironomid larvae.CLAD=8 Bosmina + 1 Acroperus.CYCL=2 Diacyclops.CALA=1 Calanoid juvenile.

Table 6 (cont'd).

SITE: Island 1 DATE: June10 REP:1 Site 11 Time: 1316 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:3 Seaweed and debris.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	0	18	8	0	0	8	4	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	18	8	0	0	8	4	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	0	0	4	0	0	0	0	2	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	4	0	0	0	0	2	0	0

DOMINANT SPECIES
Harpacticoids - 18
Amphipods - 8
Copepod nauplius - 8
COMMENTS: ROTI = 4 Kellicottia.

SITE: Island 1 DATE: June10 REP:2 Site 11 Time: 1319 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:4 Seaweed and debris
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	1	12	11	0	1	20	5	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	1	12	11	0	1	20	5	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	FILA
COUNT:	1	0	13	0	0	0	0	1	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	1	0	13	0	0	0	0	1	0	0

DOMINANT SPECIES
Amphipods - 20
Rotifers - 13
Harpacticoids - 12
COMMENTS: ROTI =13 Kellicottia.

Table 6 (cont'd).

SITE: Island 1 DATE: June 10 REP:3 Site 11 Time: 1321 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:4 Seaweed and debris.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	0	41	13	0	0	17	11	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	41	13	0	0	17	11	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	3	0	13	0	0	0	0	0	1	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	3	0	13	0	0	0	0	0	1	0

DOMINANT SPECIES
Harpacticoids - 41
Amphipods - 17
Copepod nauplius - 13
COMMENTS: ROTI = 13 Kellicottia.

SITE: Barge Marsh DATE: June 10 REP:1 Site 62 Time: 1339 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:3 Debris
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	2	9	4	1	1	0	6	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	2	9	4	1	1	0	6	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	0	0	8	0	7	0	2	0	0	2
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	8	0	7	0	2	0	0	2

DOMINANT SPECIES
Harpacticoids - 9
Rotifers - 8
Mysids - 7
COMMENTS: ROTI = 8 Kellicottia. CYCL = 2 Diacyclops.
COMMENTS: CLAD = 2 Bosmina.

Table 6 (cont'd).

SITE: Barge Marsh DATE: June 10 REP:2 Site 62 Time: 1341 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:2
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	0	19	3	3	0	0	14	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	19	3	3	0	0	14	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	3	0	10	0	1	0	0	0	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	3	0	10	0	1	0	0	0	0	0

DOMINANT SPECIES
Harpacticoids - 19
Nematodes - 14
Rotifers - 10
COMMENTS: ROTI = 19 Kellicottia.

SITE: Barge Marsh DATE: June 10 REP:3 Site 62 Time: 1343 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:3 Debris
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	2	8	1	10	0	2	15	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	2	8	1	10	0	2	15	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	0	0	3	0	8	0	1	0	0	1
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	3	0	8	0	1	0	0	1

DOMINANT SPECIES
Nematodes - 15
Barnacle nauplius - 10
Mysids - 8
COMMENTS: ROTI = 3 Kellicottia. CYCL = 2 Diacyclops.
COMMENTS: CLAD =1 Bosmina.

Table 6 (cont'd).

SITE: Rip Rap 1 DATE: June 10 REP:1 Site 63 Time: 1412 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:4 Fine sand and debris.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	0	7	3	14	0	0	6	2	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	7	3	14	0	0	6	2	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	0	0	7	42	1	0	0	0	0	2
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	7	42	1	0	0	0	0	2

DOMINANT SPECIES
EggS - 42
Barnacle Nauplius - 14
Harpacticoids - 7
COMMENTS: ROTI = 7 Kellicottia.

SITE: Rip Rap 1 DATE: June 10 REP:2 Site 63 Time: 1416 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:3 Lots of Diatoms.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	0	15	14	19	0	1	2	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	15	14	19	0	1	2	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	1	0	16	3	1	0	0	0	1	2
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	1	0	16	3	1	0	0	0	1	2

DOMINANT SPECIES
Barnacle Nauplius - 19
Rotifers - 16
Harpacticoids - 15
Copepod Nauplius - 14
COMMENTS: ROTI = 16 Kellicottia. INSE = 1Chironomid larva.

Table 6 (cont'd).

SITE: Rip Rap 1 DATE: June 10 REP:3 Site 63 Time: 1420 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:2 Lots of Diatoms.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	0	5	7	8	0	0	0	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	5	7	8	0	0	0	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	1	0	22	0	1	0	0	0	1	1
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	1	0	22	0	1	0	0	0	1	1

DOMINANT SPECIES
Rotifers - 22
Barnacle Nauplius - 8
Copepod Nauplius - 7
COMMENTS: ROTI = 22 Kellicottia. INSE = 1 Chironomid larva.

SITE: Rip Rap 2 DATE: June 10 REP:1 Site 64 Time: 1438 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:3 Lots of Diatoms.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	0	23	21	4	0	0	2	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	23	21	4	0	0	2	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	2	0	16	1	7	0	3	0	1	2
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	2	0	16	1	7	0	3	0	1	2

DOMINANT SPECIES
Harpaciticoids - 23
Copepod Nauplius - 21
Rotifers - 16
COMMENTS: ROTI = 16 Kellicottia. INSE = 1 Chironomid larva. CLAD = 2 Bosmina + 1 Chydorus.

Table 6 (cont'd).

SITE: Rip Rap 2 DATE: June 10 REP:2 Site 64 Time:1443 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:2
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	1	12	1	2	0	0	1	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	1	12	1	2	0	0	1	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	0	0	19	0	0	0	0	0	0	1
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	19	0	0	0	0	0	0	1

DOMINANT SPECIES
Rotifers - 19
Harpacticoids - 12
Barnacle nauplius - 2
COMMENTS: ROTI = 19 Kellicottia. CYCL = 1 Diacyclop.

SITE: Rip Rap 2 DATE: June 10 REP:3 Site 64 Time:1448 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:3 Lots of Diatoms.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	0	0	0	0	1	0	0	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	0	0	0	1	0	0	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	0	0	0	0	0	0	0	0	0	2
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	0	0	0	0	0	0	0	2

DOMINANT SPECIES
Barnacle Cypris - 2
Ostracod - 1

COMMENTS:

Table 6 (cont'd).

SITE: Control Marsh DATE: June 10 REP:1 Site 66 Time:1120 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:4 Fine sand.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	0	5	0	0	1	3	1	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	5	0	0	1	3	1	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	3	0	0	0	0	0	2	0	1	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	3	0	0	0	0	0	2	0	1	0

DOMINANT SPECIES
Harpacticoids - 5
Amphipods - 3

COMMENTS: CLAD = 2 Bosmina. INSE = 1 Chironomid larva.

SITE: Control Marsh DATE: June 10 REP:2 Site 66 Time:1123 Pst
SAMPLE VOLUME:250MLS
CONTAMINATION:4 Fine sand.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	0	22	10	0	21	9	41	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	22	10	0	21	9	41	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	6	0	8	1	0	0	2	1	2	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	6	0	8	1	0	0	2	1	2	0

DOMINANT SPECIES
Nematodes - 41
Harpacticoids - 22

COMMENTS:ROTI = 8 Kellicottia. CLAD = 2 Bosmina. INSE = 2 Chironomid larvae.

Table 6 (cont'd).

SITE: Control Marsh DATE: June10 REP:3 Site 66 Time:1125 Pst
SAMPLE VOLUME:250MLS
CONTAMINATION:4 Fine sand.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	0	61	14	0	111	22	226	2	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	61	14	0	111	22	226	2	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	87	0	5	1	0	0	4	0	1	1
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	87	0	5	1	0	0	4	0	1	1

DOMINANT SPECIES
Nematodes - 226
Ostracods - 111
Worms - 87
COMMENTS: CLAD = 4 Bosmina. ROTI = 5 Kellicottia. INSE = 1 Chironomid larva.

SITE: Log Sort Marsh DATE: June 18 REP:1 Site 65 Time: 1550 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:4 Fine sand & debris.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	1	0	0	0	0	0	2	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	1	0	0	0	0	0	2	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	0	0	0	0	0	0	0	0	1	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	0	0	0	0	0	0	1	0

DOMINANT SPECIES
Nematodes - 2
Cyclopoid - 1
Insect - 1
COMMENTS:CYCL = 1 Diacyclop. INSE = 1Chironomid larva.

Table 6 (cont'd).

Site: Log Sort Marsh DATE: June18 REP:2 Site 65 Time: 1556 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:4 Fine sand.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	0	2	1	0	0	0	1	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	2	1	0	0	0	1	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	1	0	3	0	0	0	0	0	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	1	0	3	0	0	0	0	0	0	0

DOMINANT SPECIES
Rotifers - 3
Harpacticoids - 2

COMMENTS: ROTI = 3 Kellicottia.

Site: Log Sort Marsh DATE: June18 REP:3 Site 65 Time: 1603 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:4 Fine sand & debris.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	0	4	0	1	0	0	2	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	4	0	1	0	0	2	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	0	0	0	0	0	0	3	2	1	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	0	0	0	0	3	2	1	0

DOMINANT SPECIES
Harpacticoids - 4
Cladocerons - 3

COMMENTS: INSE = 1Collembola. CLAD = 1 Daphinia + 2 Bosmina.

Table 6 (cont'd).

Site: Control Marsh DATE:June 18 REP:1 Site 66 Time: 1526 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:4 Fine sand and debris.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	3	1	8	4	0	28	0	4	36	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	3	1	8	4	0	28	0	4	36	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	3	0	3	0	0	0	1	0	9	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	3	0	3	0	0	0	1	0	9	0

DOMINANT SPECIES
Mites - 36
Ostracods - 28
COMMENTS: ROTI = 3 Kellicottia. CLAD = 1 Bosmina. CALA = 1 Diaptomus + 2 Calanoid juveniles.
COMMENTS: INSE = 1 Collembola + 1 Insect larva + 7 Chironomid larvae.

SITE: Control Marsh DATE:June 18 REP:2 Site 66 Time: 1530 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:4 Fine sand & debris.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	0	2	0	0	10	0	1	6	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	2	0	0	10	0	1	6	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	0	0	9	0	0	0	1	0	2	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	9	0	0	0	1	0	2	0

DOMINANT SPECIES
Ostracods - 10
Rotifers - 9
Mites - 6
COMMENTS: INSE = 2 Chironomid larvae. CLAD = 1 Bosmina. ROT = 9 Kellicottia.

Table 6 (cont'd).

Site: Control Marsh DATE: June 18 REP:3 Site 66 Time: 1536 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:4 Fine sand and debris.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	0	2	0	0	2	0	0	1	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	2	0	0	2	0	0	1	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	1	0	37	0	0	0	3	0	2	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	1	0	37	0	0	0	3	0	2	0

DOMINANT SPECIES
Rotifers - 37
Cladocerons - 3
COMMENTS: ROTI = 37 Kellicottia. CLAD = 3 Bosmina.
COMMENTS: INSE = 1 Insect + 1 Chironomid larva.

SITE: River Marsh DATE: June 18 REP:1 Site 59 Time: 1617 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:4 Fine sand & debris.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GAST
COUNT:	0	0	3	0	0	0	0	2	6	11
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	3	0	0	0	0	2	6	11

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	4	0	1	0	0	0	1	0	10	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	4	0	1	0	0	0	1	0	10	0

DOMINANT SPECIES
Gastropods - 11
Insects - 10
Mites - 6
COMMENTS: INSE = 5 Chironomid larvae + 4 Collembolas + 1 Insect. CLAD = 1 Bosmina. ROTI =1 Kellicottia.

Table 6 (cont'd).

Site: River Marsh DATE: June 18 REP:2 Site 59 Time: 1622 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:4 Fine sand and debris.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	0	5	0	0	0	0	0	1	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	5	0	0	0	0	0	1	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	1	0	2	0	0	0	3	0	2	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	1	0	2	0	0	0	3	0	2	0

DOMINANT SPECIES
Harpacticoids - 5
Insects - 2
COMMENTS: ROTI = 2 Kellicottia.
COMMENTS: INSE = 2 Chironomid larvae.

SITE: River Marsh DATE: June 18 REP:3 Site 59 Time: 1626 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:4 Fine sand & debris.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GAST
COUNT:	0	0	56	0	0	12	3	6	2	4
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	56	0	0	12	3	6	2	4

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	12	0	8	0	0	0	0	0	6	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	12	0	8	0	0	0	0	0	6	0

DOMINANT SPECIES
Harpacticoids - 56
Ostracods - 12
Worms - 12
COMMENTS: INSE = 5 Chironomid larvae + Collembola. ROTI = 8 Kellicottia.

Table 6 (cont'd).

Site: Barge Marsh DATE: June 18 REP:1 Site 62 Time: 1703 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:4 Fine sand and debris.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	0	1	0	0	0	0	0	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	1	0	0	0	0	0	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	0	0	6	0	0	0	0	0	1	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	6	0	0	0	0	0	1	0

DOMINANT SPECIES
Rotifers - 6

COMMENTS: ROTI = 6 Kellicottia.
COMMENTS: INSE = 1 Collembola.

SITE: Barge Marsh DATE: June 18 REP:2 Site 62 Time: 1708 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:4 Fine sand and debris.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	0	0	0	0	1	0	0	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	0	0	0	1	0	0	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	1	0	24	0	0	0	0	0	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	1	0	24	0	0	0	0	0	0	0

DOMINANT SPECIES
Rotifers - 24

COMMENTS: ROTI = 24 Kellicottia.

Table 6 (cont'd).

Site: Barge Marsh DATE: June 18 REP:3 Site 62 Time : 1713 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:4 Fine sand and debris.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	2	2	1	0	0	0	0	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	2	2	1	0	0	0	0	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	0	0	32	0	0	0	0	0	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	32	0	0	0	0	0	0	0

DOMINANT SPECIES
Rotifers - 32

COMMENTS: ROTI = 32 Kellicottia. CYCL = 2 Diacyclops.

SITE: Island One DATE: July 2 REP:1 Site 11 Time : 1233 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:4 Fine sand & debris.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	0	67	15	0	2	0	9	2	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	67	15	0	2	0	9	2	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	1	0	11	0	0	0	0	0	1	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	1	0	11	0	0	0	0	0	1	0

DOMINANT SPECIES
Harpacticoids - 67
Copepod nauplius - 15

COMMENTS:ROTI = 11 Kellicottia. INSE = 1 Chironomid larva.

Table 6 (cont'd).

Site: Island One DATE: July 2 REP:2 Site 11 Time: 1235 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:4 Fine sand and debris.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	0	53	0	0	2	2	34	1	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	53	0	0	2	2	34	1	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	1	0	1	1	0	0	0	3	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	1	0	1	1	0	0	0	3	0	0

DOMINANT SPECIES
Harpacticoids - 53
Nematodes - 34
COMMENTS: ROTI = 1 Kellicottia.

SITE: Island One DATE: July 2 REP:3 Site 11 Time: 1237 PST
SAMPLE VOLUME:250MLS
CONTAMINATION: 3 Fine sand & debris.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	0	47	1	0	1	0	60	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	47	1	0	1	0	60	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	2	0	0	0	0	0	0	2	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	2	0	0	0	0	0	0	2	0	0

DOMINANT SPECIES
Nematodes - 60
Harpacticoids - 47

COMMENTS:

Table 6 (cont'd).

Site: Mother Ramp DATE: July 2 REP:1 Site 1 Time:1054 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:4 Fine sand and seaweed.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GEGG
COUNT:	0	1	3	0	0	1	17	2	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	1	3	0	0	1	17	2	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	0	0	1	2	16	0	0	6	2	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	1	2	16	0	0	6	2	0

DOMINANT SPECIES
Amphipods - 17
Mysids - 16
COMMENTS: ROTI = 1 Kellicottia. INSE = 2 Chironomid larvae.

SITE: Mother Ramp DATE: July 2 REP:2 Site 1 Time:1057 PST
SAMPLE VOLUME:250MLS
CONTAMINATION: 4 Fine sand and seaweed.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	BIVA
COUNT:	0	0	15	0	0	5	7	0	0	3
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	15	0	0	5	7	0	0	3

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	2	0	0	1	13	0	1	1	3	1
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	2	0	0	1	13	0	1	1	3	1

DOMINANT SPECIES
Harpacticoids - 15
Mysids - 13
Amphipods - 7
COMMENTS:CLAD = 1 Bosmina. INSE = 3 Chironomid larvae.

Table 6 (cont'd).

Site: Mother Ramp DATE: July 2 REP:3 Site 1 Time: 1101 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:4 Fine sand and seaweed.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GAST
COUNT:	0	1	28	1	0	1	5	2	0	1
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	1	28	1	0	1	5	2	0	1

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	TANA
COUNT:	0	0	1	6	22	0	0	7	2	1
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	1	6	22	0	0	7	2	1

DOMINANT SPECIES
Harpacticoids - 28
Mysids - 22
COMMENTS: ROTI = 1 Kellicottia. INSE = 2 Chironomid larvae. CYCL = 1 Diacyclop.

SITE: Rip Rap 1 DATE:July 2 REP:1 Site 63 Time: 1305 PST
SAMPLE VOLUME:250MLS
CONTAMINATION: 4 Fine sand and debris.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	BIVA
COUNT:	0	0	2	0	0	0	0	2	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	2	0	0	0	0	2	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	1	0	1	0	0	0	0	0	1	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	1	0	1	0	0	0	0	0	1	0

DOMINANT SPECIES
Harpacticoids - 2
Nematodes - 2
Insect - 1
COMMENTS:ROTI = 1 Kellicottia. INSE = 1 Chironomid larva.

Table 6 (cont'd).

Site: Rip Rap 1 DATE: July 2 REP:2 Site 63 Time: 1308 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:4 Fine sand and debris.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GAST
COUNT:	0	0	4	0	0	1	0	0	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	4	0	0	1	0	0	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	TANA
COUNT:	0	0	0	6	1	0	0	1	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	0	6	1	0	0	1	0	0

DOMINANT SPECIES
Harpacticoids - 4

COMMENTS:

SITE: Rip Rap 1 DATE: July 2 REP:3 Site 63 Time: 1310 PST
SAMPLE VOLUME:250MLS
CONTAMINATION: 4 Fine sand and debris.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	BIVA
COUNT:	0	0	11	1	0	1	1	0	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	11	1	0	1	1	0	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	0	0	3	0	1	0	0	0	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	3	0	1	0	0	0	0	0

DOMINANT SPECIES
Harpacticoids - 11
Rotifers - 3

COMMENTS:ROT = 3 Kellicottia.

Table 6 (cont'd).

Site: Rip Rap 2 DATE: July 2 REP:1 Site 64 Time: 1325 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:4 Fine sand and debris.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GAST
COUNT:	0	0	8	0	0	0	0	0	1	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	8	0	0	0	0	0	1	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	TANA
COUNT:	0	0	0	0	0	0	0	0	1	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	0	0	0	0	0	0	1	0

DOMINANT SPECIES
Harpacticoids - 8

COMMENTS:INSE = 1 Chironomid pupa.

SITE: Rip Rap 2 DATE: July 2 REP:2 Site 64 Time: 1328 PST
SAMPLE VOLUME:250MLS
CONTAMINATION: 4 Fine sand and debris.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	BIVA
COUNT:	0	0	3	0	0	0	0	2	1	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	3	0	0	0	0	2	1	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	0	0	0	2	2	0	0	0	2	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	0	2	2	0	0	0	2	0

DOMINANT SPECIES
Harpacticoids - 3
Mysids - 2

COMMENTS:INSE = 2 Collembola.

Table 6 (cont'd).

Site: Rip Rap 2 DATE: July 2 REP:3 Site 64 Time: 1331 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:4 Fine sand and debris.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GAST
COUNT:	0	0	3	0	0	2	0	1	1	1
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	3	0	0	2	0	1	1	1

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	TANA
COUNT:	0	0	1	0	0	0	0	0	1	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	1	0	0	0	0	0	1	0

DOMINANT SPECIES
Harpacticoids -3

COMMENTS:INSE = 1 Chironomid larva. ROTI = 1 Kellicottia.

SITE: Control Marsh DATE: July 2 REP:1 Site 66 Time: 1359 PST
SAMPLE VOLUME:250MLS
CONTAMINATION: 4 Fine sand.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GAST
COUNT:	0	0	3	2	0	4	0	2	1	1
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	3	2	0	4	0	2	1	1

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	0	0	14	0	0	0	0	0	1	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	14	0	0	0	0	0	1	0

DOMINANT SPECIES
Rotifers - 14
Ostracods - 4
Harpacticoids - 3
COMMENTS:INSE = 1 Chironomid larvae. ROTI = 14 Kellicottia.

Table 6 (cont'd).

Site: Control Marsh DATE: July 2 REP:2 Site 66 Time: 1401 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:4 Fine sand and debris.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GAST
COUNT:	0	1	1	2	0	2	0	2	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	1	1	2	0	2	0	2	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	TANA
COUNT:	0	0	7	0	0	0	1	0	2	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	7	0	0	0	1	0	2	0

DOMINANT SPECIES
Rotifers - 7

COMMENTS:INSE = 2 Chironomid larvae. ROTI = 7 Kellicottia. CLAD = 1 Bosmina. CYCL = 1 Oncaea borealis.

SITE: River Marsh DATE: July 2 REP:1 Site 59 Time: 1427 PST
SAMPLE VOLUME:250MLS
CONTAMINATION: 6 Fine sand and debris.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GAST
COUNT:	0	0	141	3	0	58	3	18	2	4
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	141	3	0	58	3	18	2	4

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	FILA
COUNT:	45	1	0	0	0	0	3	0	35	1
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	45	1	0	0	0	0	3	0	35	1

DOMINANT SPECIES
Harpacticoids - 141
Ostracods - 58
Worms - 45
COMMENTS:INSE = 1 Chironomid pupa + 34 Chironomid larvae. CLAD = 1 Bosmina + 2 Chydorus.

Table 6 (cont'd).

Site: River Marsh DATE: July 2 REP:2 Site 59 Time: 1431 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:5 Fine sand and debris.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GAST
COUNT:	0	0	35	0	0	5	2	14	0	2
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	35	0	0	5	2	14	0	2

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	TANA
COUNT:	19	1	0	0	0	0	3	0	19	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	19	1	0	0	0	0	3	0	19	0

DOMINANT SPECIES
Harpacticoids - 35
Worms - 19
COMMENTS:INSE = 2 Adults + 1 Nymph + 1 Collembola + 15 Chironomid larvae.
COMMENTS: CLAD = 2 Bosmina + 1 Chydorus.

SITE: River Marsh DATE: July 2 REP:3 Site 59 Time:1435 PST
SAMPLE VOLUME:250MLS
CONTAMINATION: 6 Fine sand and debris.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GAST
COUNT:	0	0	7	0	0	1	1	3	0	17
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	7	0	0	1	1	3	0	17

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	FILA
COUNT:	11	0	0	0	0	0	1	0	17	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	11	0	0	0	0	0	1	0	17	0

DOMINANT SPECIES
Gastropods - 17
Insects - 17
Worms -11
COMMENTS:INSE = 1 Adult + 3 Collembola + 13Chironomid larvae. CLAD = 1 Bosmina.

Table 6 (cont'd).

Site: Log Sort Marsh DATE: July 2 REP:1 Site 65 Time: 1448 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:4 Fine sand.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GAST
COUNT:	0	0	4	0	0	0	0	0	0	5
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	4	0	0	0	0	0	0	5

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	TANA
COUNT:	7	0	0	0	0	0	0	2	3	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	7	0	0	0	0	0	0	2	3	0

DOMINANT SPECIES
Worms - 7
Gastropods - 5
COMMENTS:INSE = 1 Adult + 1 Collembola + 1 Chironomid larva.

Site: Log Sort Marsh DATE: July 2 REP:2 Site 65 Time:1451 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:4 Fine sand.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GAST
COUNT:	0	0	3	0	0	0	0	6	4	19
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	3	0	0	0	0	6	4	19

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	FILA
COUNT:	18	0	0	0	0	0	0	0	24	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	18	0	0	0	0	0	0	0	24	0

DOMINANT SPECIES
Insects - 24
Gastropods - 19
Worms - 18
COMMENTS:INSE = 1 Adult + 3 Collembola + 19 Chironomid larvae + 1 Insect larva.

Table 6 (cont'd).

Site: Log Sort Marsh DATE: July 2 REP:3 Site 65 Time: 1455 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:4 Fine sand.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GAST
COUNT:	0	0	0	0	0	0	0	4	2	3
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	0	0	0	0	0	4	2	3

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	TANA
COUNT:	5	0	0	0	0	0	0	0	5	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	5	0	0	0	0	0	0	0	5	0

DOMINANT SPECIES
Worms - 5
Insects - 5
COMMENTS:INSE = 1 Adult + 2 Collembola + 2 Chironomid larvae.

SITE: Barge Marsh DATE: July 2 REP:1 Site 62 Time: 1604 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:4 Fine sand.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GAST
COUNT:	0	0	0	0	0	0	0	2	1	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	0	0	0	0	0	2	1	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	FILA
COUNT:	0	0	1	0	0	0	0	0	8	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	1	0	0	0	0	0	8	0

DOMINANT SPECIES
Insects - 8

COMMENTS:INSE = 7 Collembola + 1 Chironomid larva.
COMMENTS: ROTI = 1 Kellicottia.

Table 6 (cont'd).

Site: Barge Marsh DATE: July 2 REP:2 Site 62 Time: 1607 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:4 Fine sand.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GAST
COUNT:	0	0	0	0	0	1	0	7	0	2
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	0	0	0	1	0	7	0	2

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	TANA
COUNT:	1	0	0	0	0	0	0	0	11	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	1	0	0	0	0	0	0	0	11	0

DOMINANT SPECIES
Insects - 11
Nematodes - 7
COMMENTS:INSE = 11 Collembola.

SITE: North Baikie Marsh DATE: July 2 REP:1 Site 61 Time: 0955 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:3 Fine sand and debris.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GAST
COUNT:	1	1	1	0	0	0	0	0	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	1	1	1	0	0	0	0	0	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	FILA
COUNT:	0	0	0	0	0	0	0	0	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	0	0	0	0	0	0	0	0

DOMINANT SPECIES
Calanoid - 1
Cyclopoid - 1
Harpacticoid - 1
COMMENTS:CALA = 1 Eurytemora affinis. CYCL = 1 Diacyclop.

Table 6 (cont'd).

Site: North Baikie Marsh DATE: July 3 REP:2 Site 61 Time : 0957 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:3 Fine sand and debris.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GAST
COUNT:	0	0	12	0	0	0	1	7	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	12	0	0	0	1	7	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	TANA
COUNT:	2	0	0	0	8	0	1	0	1	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	2	0	0	0	8	0	1	0	1	0

DOMINANT SPECIES
Harpacticoids - 12
Mysids - 8
COMMENTS:INSE = 1 Chironomid larva. CLAD = 1 Acroperus.

Site: North Baikie Marsh DATE: July 3 REP:3 Site 61 Time: 1001 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:3 Fine sand and debris.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GAST
COUNT:	0	0	0	0	0	0	0	1	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	0	0	0	0	0	1	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	FILA
COUNT:	0	0	0	0	0	0	0	0	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	0	0	0	0	0	0	0	0

DOMINANT SPECIES
Nematode - 1

COMMENTS:

Table 6 (cont'd).

Site: Island Three DATE: July 3 REP:1 Site 14 Time: 1333 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:3 Fine sand and debris.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GAST
COUNT:	0	0	6	0	0	0	0	3	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	6	0	0	0	0	3	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	TANA
COUNT:	0	0	8	0	0	0	0	0	1	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	8	0	0	0	0	0	1	0

DOMINANT SPECIES
Rotifers - 8
Harpacticoids - 6
COMMENTS:INSE = 1 Chironomid larva. ROT = 8 Kellicottia.

SITE: Island Three DATE: July 3 REP:2 Site 14 Time: 1336 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:3 Fine sand and debris.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GAST
COUNT:	0	0	7	0	0	0	0	12	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	7	0	0	0	0	12	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	FILA
COUNT:	0	0	3	0	0	0	0	0	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	3	0	0	0	0	0	0	0

DOMINANT SPECIES
Nematodes - 12
Harpacticoids -7

COMMENTS:ROTI = 3 Kellicottia.

Table 6 (cont'd).

Site: Island Three DATE: July 3 REP:3 Site 14 Time: 1338 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:3 Fine sand and debris.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GAST
COUNT:	0	1	10	0	0	3	0	37	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	1	10	0	0	3	0	37	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BYCP
COUNT:	0	0	6	0	0	0	0	0	0	1
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	6	0	0	0	0	0	0	1

DOMINANT SPECIES
Nematodes - 37
Harpacticoids - 10
COMMENTS: ROTI = 8 Kellicottia + 1 Keratella. CYCL = 1 Oncaea borealis.

SITE: Fred's Marsh DATE: July 3 REP:1 Site 60 Time: 0823 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:3 Fine sand and debris.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GAST
COUNT:	0	25	12	1	0	0	0	29	1	6
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	25	12	1	0	0	0	29	1	6

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	FILA
COUNT:	21	0	0	0	0	0	10	0	42	1
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	21	0	0	0	0	0	10	0	42	1

DOMINANT SPECIES
Insects - 42
Nematodes - 29
Cyclopoids - 25
COMMENTS:CYCL = 25 Macrocyclops. CLAD = 1 Acerperus + 4 Chydorus + 5 Alona.
COMMENTS: INSE = 2 Nymphs + 3 Chironomid pupae + 36 Chironomid larvae.

Table 6 (cont'd).

Site: Fred's Marsh DATE: July 3 REP:2 Site 60 Time: 0825 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:3 Fine sand and debris.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GAST
COUNT:	0	0	10	1	0	1	0	61	1	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	10	1	0	1	0	61	1	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BYCP
COUNT:	4	0	0	1	0	0	1	0	13	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	4	0	0	1	0	0	1	0	13	0

DOMINANT SPECIES
Nematodes - 61
Harpacticoids - 10
COMMENTS: CLAD = 1 Alona. INSECT = 1 Collembola + 1 Simulidae larva + 1 Nymph + 11 Chironomid larvae.

SITE: Fred's Marsh DATE: July 3 REP:3 Site 60 Time: 0827 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:5 Fine sand and debris.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GAST
COUNT:	0	3	4	0	0	0	0	59	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	3	4	0	0	0	0	59	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	FILA
COUNT:	3	0	0	0	0	0	4	0	25	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	3	0	0	0	0	0	4	0	25	0

DOMINANT SPECIES
Nematodes - 59
Insects -29

COMMENTS:CYCL = 3 Macrocyclops. CLAD = 3 Chydorus.
COMMENTS: INSE = 1 Nymph + 5 Beetles + 6 Chironomid pupae + 13 Chironomid larvae.

Table 6 (cont'd).

SITE: South Baikie Slough DATE: July 3 REP:1 Site 58 Time: 0915 PST

CONTAMINATION:3 Fine sand and debris
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GAST
COUNT:	0	0	3	0	0	0	11	3	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	3	0	0	0	11	3	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	0	0	0	0	0	0	0	0	3	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	0	0	0	0	0	0	3	0

DOMINANT SPECIES
Amphipods - 11

COMMENTS: INSE = 3 Chironomid larvae.

SITE: South Baikie Slough DATE: July 3 REP:2 Site 58 Time: 0917 PST
SAMPLE VOLUME:250MLS
CONTAMINATION:5 Fine sand & debris.
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	FILA
COUNT:	0	0	142	6	0	0	17	2	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	142	6	0	0	17	2	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	GAST
COUNT:	11	0	0	1	0	0	0	3	4	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	11	0	0	1	0	0	0	0	4	0

DOMINANT SPECIES
Harpacticoids - 142
Amphipods - 17

COMMENTS: INSE = 4 Chironomid larvae.

Table 6 (cont'd).

SITE: South Baikie Slough DATE: July 3 REP:3 Site 58 Time: 0919 PST

CONTAMINATION:3 Fine sand and debris
RARE SCAN= 0.

SPECIES:	CALA	CYCL	HARP	CNAU	BNAU	OSTR	AMPH	NEMA	MITE	GAST
COUNT:	0	1	5	1	0	0	0	1	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	1	5	1	0	0	0	1	0	0

SPECIES:	WORM	POLY	ROTI	EGGS	MYSI	CUMA	CLAD	ISOP	INSE	BCYP
COUNT:	0	0	1	0	0	0	0	0	0	0
SUBSAMPLE VOLUME:mls.	250	250	250	250	250	250	250	250	250	250
TOTAL COUNT:	0	0	1	0	0	0	0	0	0	0

DOMINANT SPECIES
Harpacticoids - 5

COMMENTS: CYCL = 1 Acanthocyclop. ROT = 1 Kellicottia.

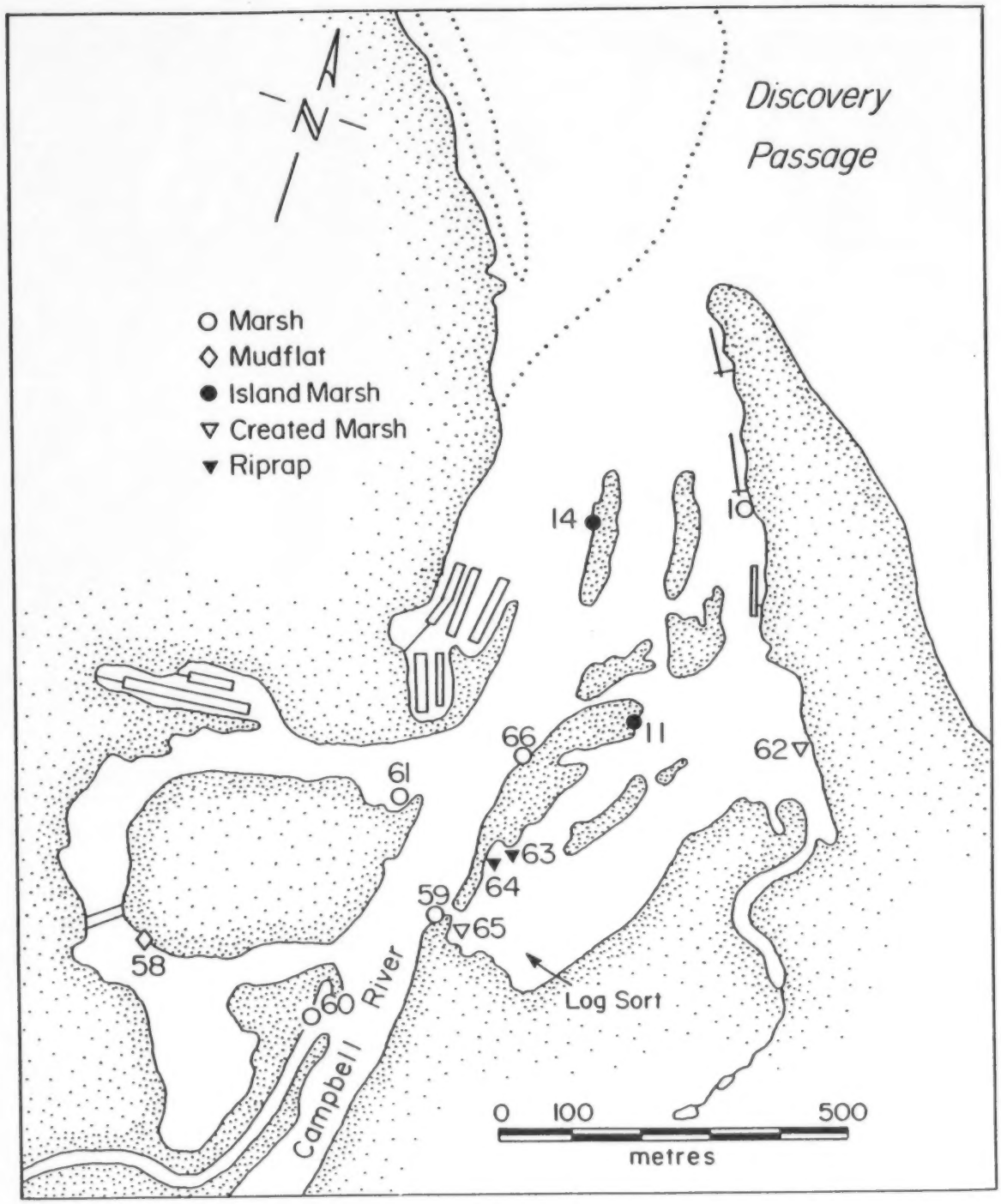

Fig. 1. Locations of the twelve sites sampled in the Campbell River estuary, with habitat designation.